

FIG.1
PRIOR ART

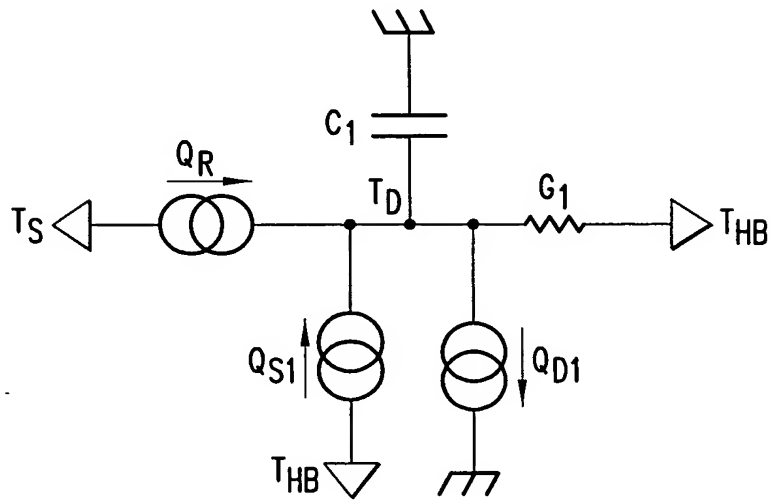


FIG.2
PRIOR ART

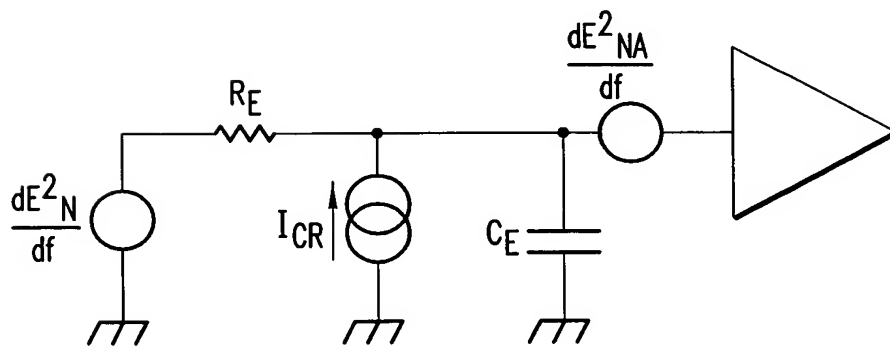


FIG.3
PRIOR ART

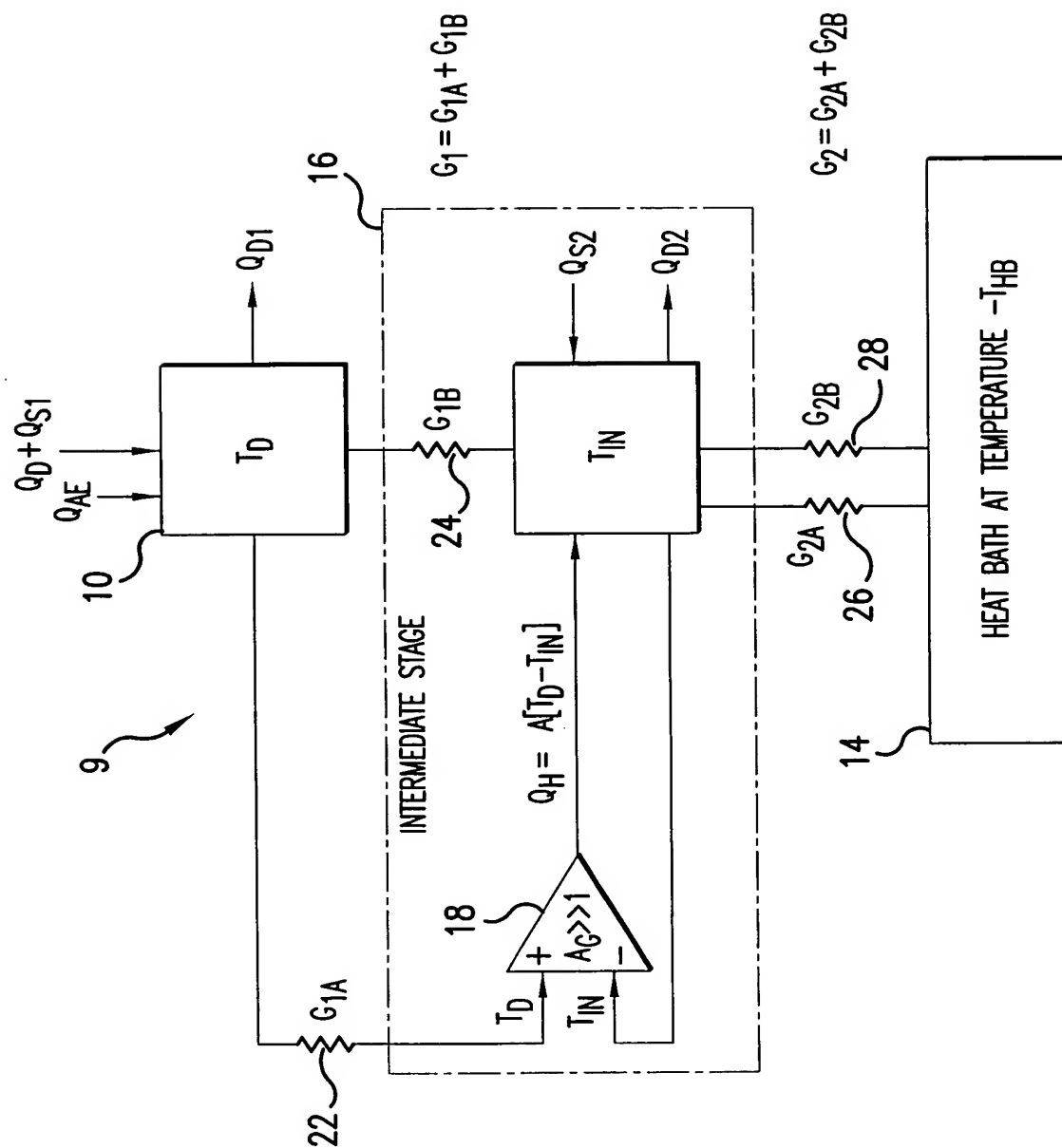


FIG.4

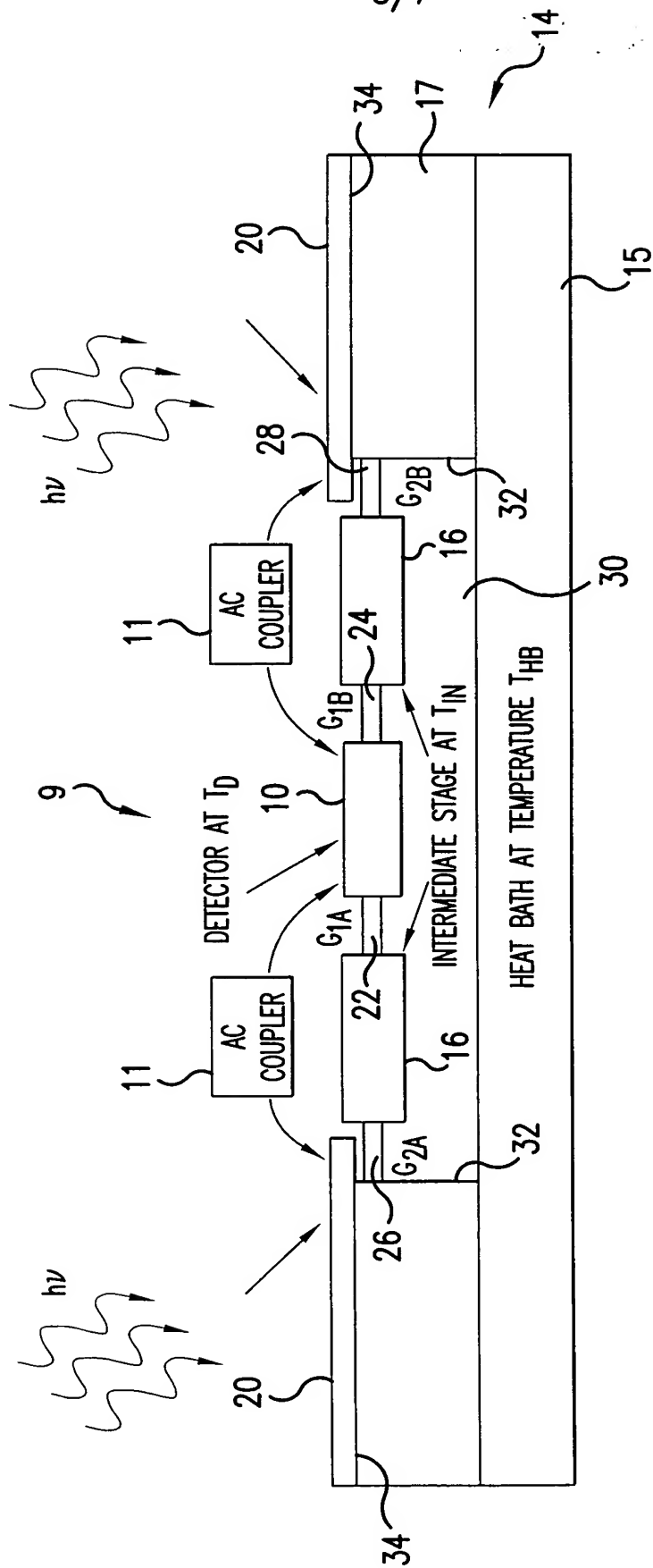
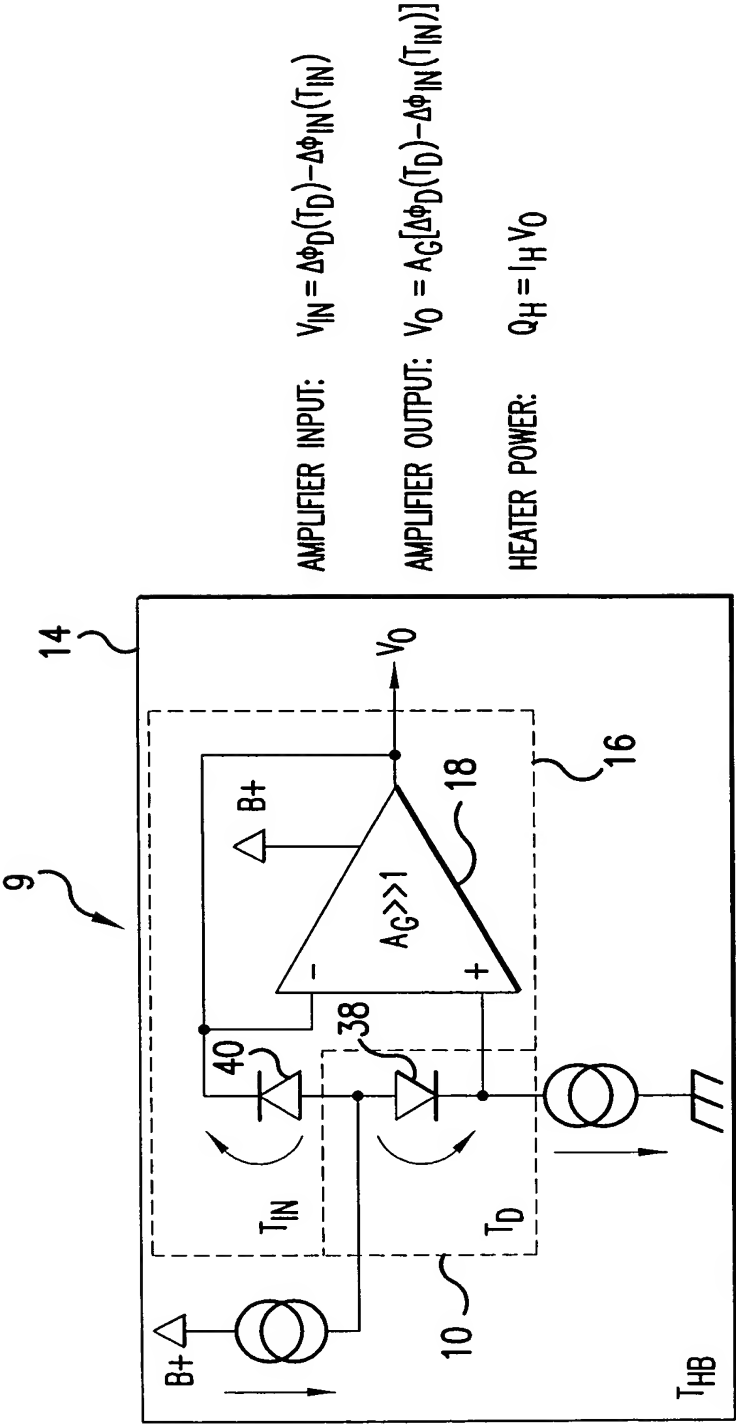


FIG.5

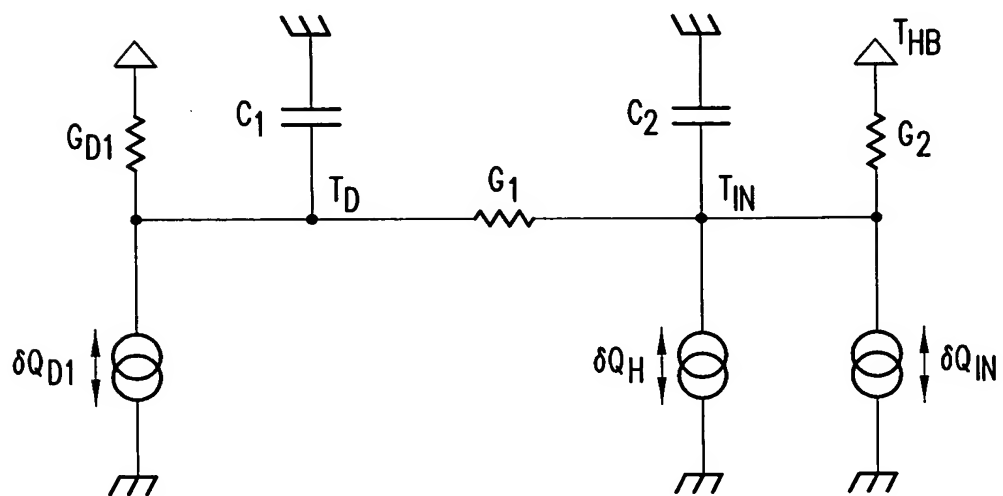
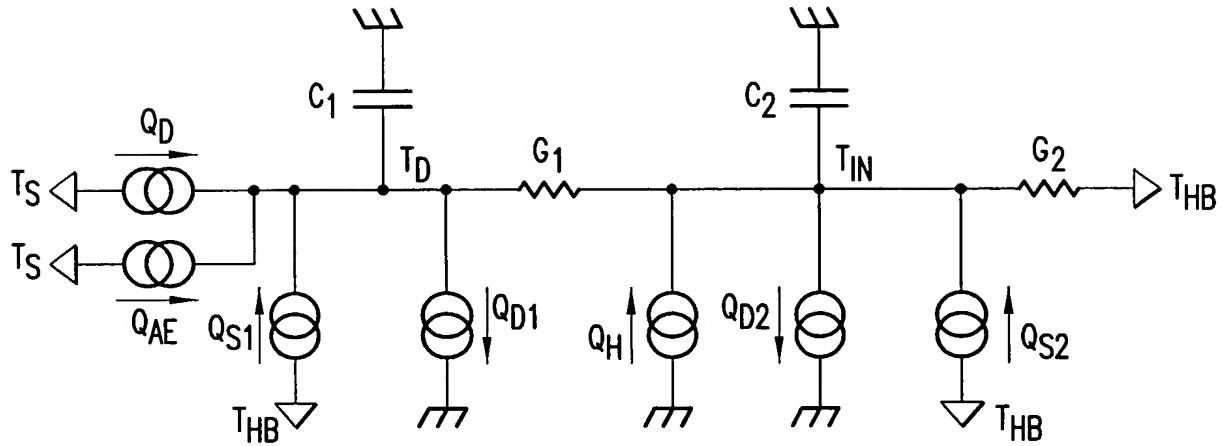


AMPLIFIER INPUT: $V_{IN} = \Delta\phi_D(T_D) - \Delta\phi_{IN}(T_{IN})$

AMPLIFIER OUTPUT: $V_O = A_G[\Delta\phi_D(T_D) - \Delta\phi_{IN}(T_{IN})]$

HEATER POWER: $Q_H = I_H V_O$

FIG.6



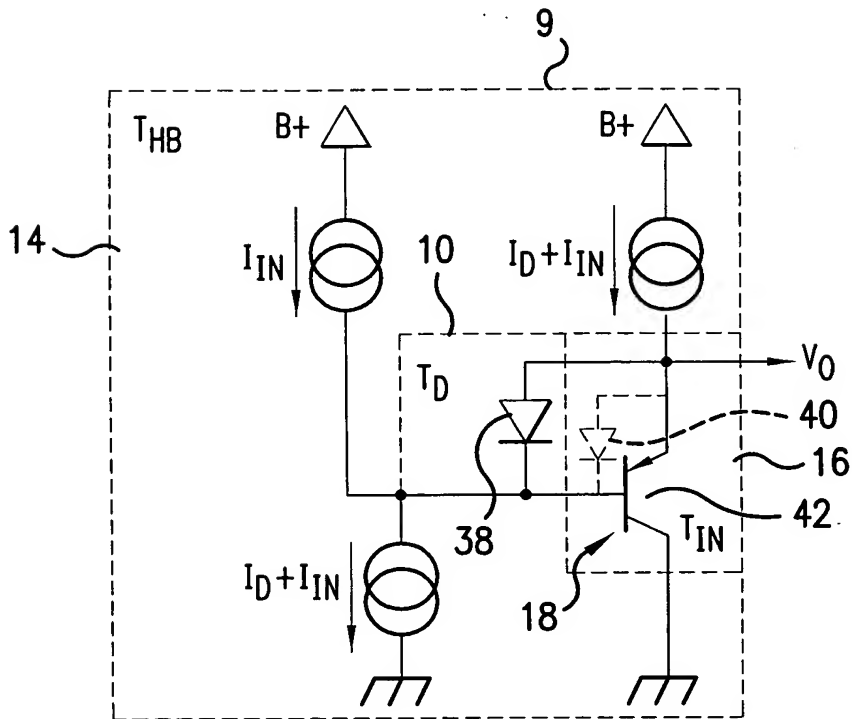


FIG.9

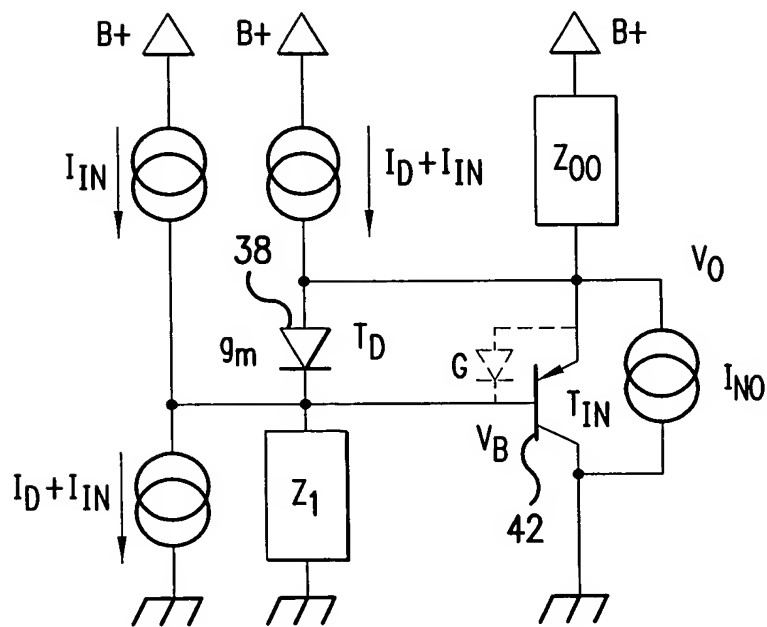


FIG.10

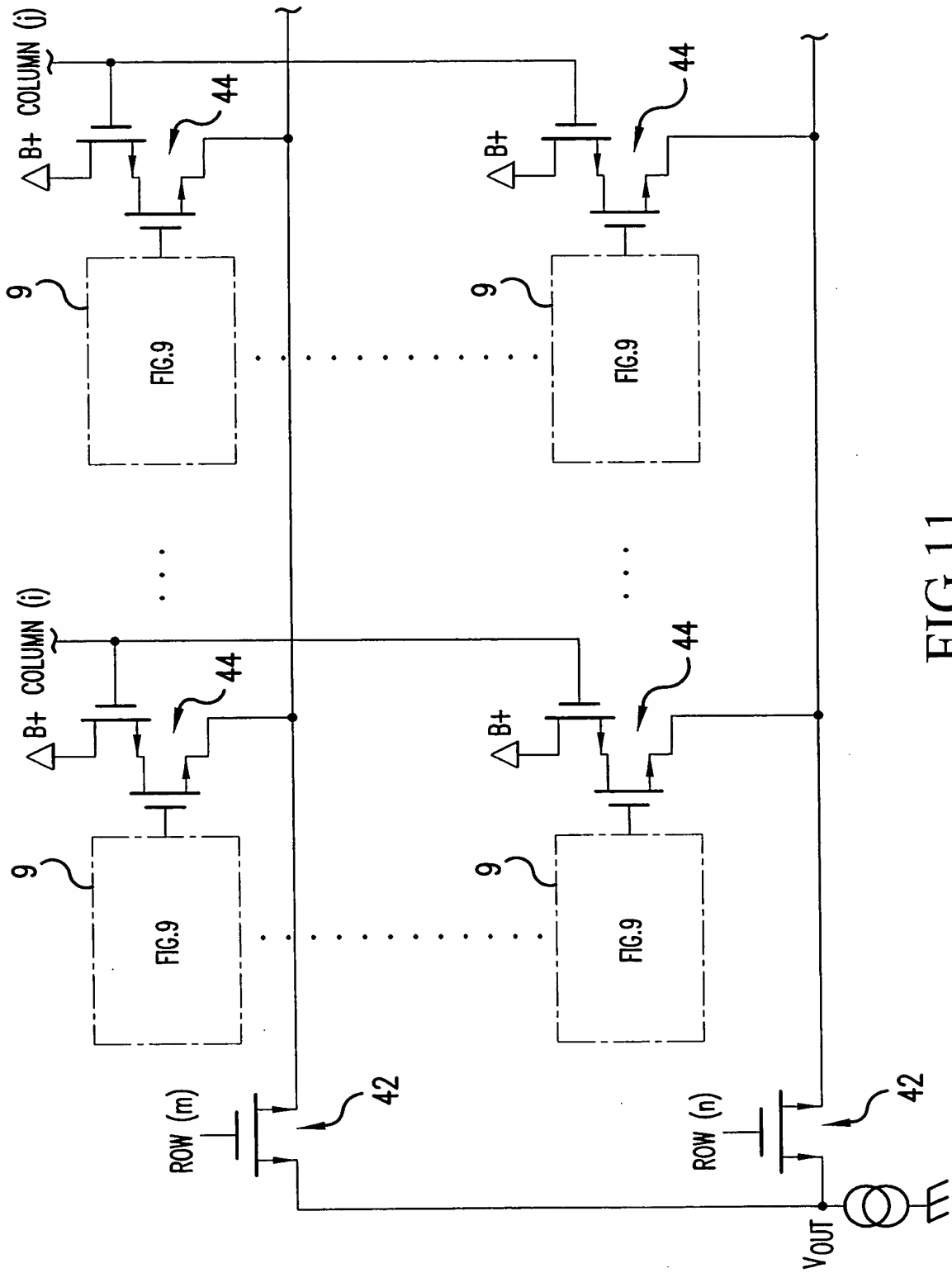


FIG. 11